Form PTO-1449 (Rev. 8-83) (modified)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 11610US02	SERIAL NO. 09/503,760	
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		APPLICANT(s): Stone, et al. FILING DATE February 14, 2000 GROUP ART UNIT: 1745 1713		
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	TRADEME	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
73		4,012,303	03/77	D'Agostino et al.			
		4,420,612	12/83	Aiba et al.			
		4,506,035	03/85	Barnett et al.			
		4,605,685	08/86	Momose et al.			
		5,422,411	06/95	Wei et al.			
		5,498,639	03/96	Wei et al.	_		
		5,602,185	08/97	Stone et al.		_	_
		5,656,386	08/97	Scherer et al.	,		
		5,684,192	11/97	Stone et al.		C.	RI
		5,817,718	10/98	Nezu et al.			3.0
		5,830,962	11/98	Feiring et al.		0	

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EXAMINER INITIAL	DOCUMENT NO.	PUBLICATIO N DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATI	
		N DATE				YES	NO
42	0 140 544	05/85	EP	-			
79	WO 95/08581	03/95	PCT				
	WO 96/40798	12/96	PCT				
	WO 97/25369	07/97	PCT				

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)				
73	Babie et al., "Kinetics of Diffusion-Free Radiation Graft Polymerization of Styrene onto Polyethylene", Journal of Polymer Science: Polymer Chemistry Edition, Vol. 15, pp. 469-88. (1977)				
14	Babie et al. "Study of Energy Transfer to Solvent in Radiation Graft Poymerization of Styrene onto Polyethylene", <u>Journal of Polymer Science: Polymer Chemistry Edition</u> , Vol. 15, pp. 1619-28 (1977)				

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DATE CONSIDERED:

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Ce TRADERO	OTHI	ER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
78		Momose et al. "Radiation Grafting of α, β, β -Trifluorostyrene onto Various Polymer Films by Preirradiation Method", <u>Journal of Applied Polymer Science</u> , Vol. 37, pp. 2165-68 (1989)
1		Momose et al. "Radiation Grafting of α, β, β -Trifluorostyrene onto Poly(Ethylene-
	İ	Tetrafluoroethylene) Film By Preirradiation Method. I. Effects of Preirradiation Dose
		Monomer Concentration, Reaction Temperature, and Film Thickness", Journal of
		Applied Polymer Science, Vol. 37, pp. 2817-26 (1989)
		Momose et al. "Radiation Grafting of α, β, β -Trifluorostyrene onto Poly(Ethylene-
		Tetrafluoroethylene) Film By Preirradiation Method. II. Properties of Cation-
		Exchange Membrane Obtained by Sulfonation and Hydrolysis of the Grafted Film"
	٠	Journal of Applied Polymer Science, Vol. 38, pp. 2091-101 (1989)
		Momose et al. "Radiation Grafting of α, β, β -Trifluorostyrene onto Poly(Ethylene-
		Tetrafluoroethylene) Film By Preirradiation Method. III. Properties of Anion-
		Exchange Membrane Obtained by Chloromethylation and Quaternization of the Grafted
	3	Film", Journal of Applied Polymer Science, Vol. 39, pp. 1221-30 (1989)
		Scherer et al. "Radiation Grafted Membranes: Some Structural Investigations In
		Relation to Their Behavior in Ion-Exchange Membrane Water Electrolysis Cells", Int.
		J. Hydrogen Energy, Vol. 17, No. 2, pp. 115-23 (1992)
		Guzman-Garcia et al. "Analysis of radiation-grafted membranes for fuel cell
		electrolytes", J. Applied Electrochem., Vol. 22, pp. 204-14 (1992)
	1	Rouilly et al. "Proton exchange membranes prepared by simultaneous radiation of
- 1		styrene onto Teflon-FEP films. Synthesis and Characterization", J. Membrane Sci.,
		81, pp. 89-95 (1993)
		Gupta et al. "Cation Exchange Membranes by Pre-Irradiation Grafting Of Styrene onto
		FEP Films. I. Influence of Synthesis Conditions", J. Polymer Sci.: Part A: Polymer
		Chemistry, Vol. 32, pp. 1931-37 (1994)
1/	-	Gupta et al. "Proton-Exchange Membranes by Radiation Grafting of Styrene onto FEP
		Films. II. Mechanism Of Thermal Degradation in Copolymer Membranes", J.
		Applied Polymer Sci Vol. 51 pp. 1659-66 (1994)
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